





SPECIFICATIONS

AMPLIFIER SECTION:

TOTAL MUSIC POWER:	130 watts (IHF Standard 4 ohms) 120 watts (IHF Standard 8 ohms)
CONTINUOUS POWER:	50 watts per channel (0.5% T.H.D.)
FREQUENCY RESPONSE:	20 Hz — 50,000 Hz (±2 dB)
POWER BANDWIDTH:	20 Hz — 30,000 Hz (±3 dB)
SIGNAL TO NOISE RATIO:	Phono — 63 dB, Tape HD — 63 dB, (below rated output) Tape Play — 70 dB, AUX — 70 dB
INPUT SENSITIVITY:	Phono 2 mV, Tape HD 2.5 mV, Tape Play 150 mV, AUX 150 mV
MAXIMUM INPUT SIGNAL:	100 mV P-P (1,000 Hz)
DAMPING FACTOR:	46 (16 ohms), 23 (8 ohms)
LOW FILTER:	80 Hz roll-off
HIGH FILTER:	6,000 Hz roll-off
BASS CONTROL:	±10 dB (at 50 Hz)
TREBLE CONTROL:	±10 dB (at 10,000 Hz)
VOLUME CONTROL TRACKING ERROR:	Within 3 dB
CENTER CHANNEL OUTPUT:	Yes
SPEAKER IMPEDANCE:	4, 8 or 16 ohms

TUNER SECTION:

USABLE SENSITIVITY:	FM: 2 microvolts (IHF Standard) AM: 10 microvolts (IHF Standard)
FM FREQUENCY RESPONSE:	20 — 20,000 Hz ±2 dB
FM HARMONIC DISTORTION:	0.6% (1,000 Hz 100% mod.)
FM SIGNAL TO NOISE RATIO:	60 dB
FM CAPTURE RATIO:	2.5 dB
FM SELECTIVITY:	45 dB
(Alt. Channel)	
FM STEREO SEPARATION:	38 dB (at 400 Hz)
FM IMAGE REJECTION:	66 dB
FM SPURIOUS RESPONSE:	80 dB
FM IF STAGES:	5 stages
FM STEREO MONO AUTO. SWITCHING:	Yes
FM INTERSTATION MUTING:	Yes
AM-FM FRONT END:	FET 4-gang (FM), 3-gang (AM)
POWER CONSUMPTION:	AC 110 — 120 or 220 — 230 volts, 250 watts (at full power) Amps sold in Europe operate only on 220 — 230 volts 50/60 Hz
DIMENSIONS:	16 1/4" W, 5 1/4" H, 14 1/4" D
WEIGHT:	31 Lbs.

Ex. 1. One PCB ass'y
Refer to the KT-2001's schematic diagram. (X05-0006-11)

NO.	ALIGN	TEST EQUIPMENTS		TUNER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
FM SECTION							
1	IF	Ⓐ and Ⓑ	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	SSVM & scope to REC jack	Ta3, 5~7	Maximum deflection
2		—	—	—	T meter	Ta8 (primary)	Make the pointer position in the center of the meter
3		Ⓐ and Ⓑ	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	SSVM, scope & distortion meter to REC jack (L)	Ta8 (secondary)	Maximum deflection and minimum distortion
4	OUTPUT	ditto	95 MHz 1 kHz (Mod) 75 kHz (Dev) 60 dB (Input)	95 MHz	ditto	VRa2	Output voltage is 1V*
5	TRACKING	ditto	90 MHz 1 kHz (Mod) 75 kHz (Dev)	90 MHz	ditto	Ta1~4	Maximum deflection
6			108 MHz 1 kHz (Mod) 75 kHz (Dev)	108 MHz		CTa1~3	
7	SCA	AG to (B)	67 kHz	Non-station	SSVM & scope to (C)	Ta15	Minimum deflection
8	19 kHz 38 kHz	Ⓑ and Ⓒ	98 MHz 1 kHz (Mod) 68.25 kHz (Dev) Phase : Reverse 60 dB (Input)	95 MHz	SSVM & scope to REC jack (L)	Ta13, 14	Maximum deflection
9	SEPARATION	ditto	95 MHz 67.5 kHz (Dev.) 1 kHz (Mod.) 60 dB (Input) L or R (SELECTOR)	95 MHz	ditto	VRm1	Minimum deflection
10	BEACON	ditto	95 MHz 40 kHz (Dev.) 1 kHz (Mod.) 60 dB (Input)	95 MHz	Stereo Indicator	VRa4, 5	Indicator lights
11	DISTORTION	ditto	95 MHz 1 kHz (Mod) 68.25 kHz (Dev) L (Select) 60 dB (Input)	95 MHz	SSVM, scope & distortion meter to REC jack (L)	Ta3, 5~7	Minimum distortion
AM SECTION							
1	IF	Ⓑ and Ⓓ	1000 kHz 400 Hz, 30% (Mod) 100 dB	1000 kHz	SSVM & scope to REC jack (L)	Ta10~12	Maximum deflection
2	TRACKING	ditto	600 kHz 400 Hz, 30% (Mod) 100 dB	600 kHz	ditto	Ta9 Bar antenna	ditto
3			1400 kHz 400 Hz, 30% (Mod)	1400 kHz		CTa4, 5	
4	S METER	ditto	1000 kHz (400 Hz, 30% Mod.)	1000 kHz	S meter	VRa3	The meter deflection at 4.5

* Some products don't have the output-level adjusting potentiometer.

Ex. 2. more 2 pieces of PCB ass'y
Refer to KT-5000's schematic diagram. (X01-0025-11, X02-0020-11 and X04-0003-13).

NO.	ALIGNMENT	TEST EQUIPMENTS		TUNER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
FM SECTION							
1	IF	Ⓐ	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	Ⓑ	Ta1, LB2, 3, 5	Maximum deflection
2	T METER	—	—	—	T meter	Lb8 (Bottom)	Make the pointer position in the center of meter
3	DISCRIMINATOR	Ⓐ	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	Ⓑ	Lb8 (Top)	Maximum deflection and minimum distortion
4	TRACKING	ditto	90 MHz 1 kHz (Mod) 75 kHz (Dev)	90 MHz	ditto	La1 ~ 4	Maximum deflection
5		ditto	108 MHz 1 kHz (Mod) 75 kHz (Dev)	108 MHz	ditto	CTa1 ~ 5	ditto
6	OUTPUT	ditto	85 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	85 MHz	ditto	VRb1	Output is 1V.
7	S METER	ditto	ditto	ditto	S meter	Lb7 VRb2	The meter deflection 4.5.
8	SCA	Connect the base of Qb6 to GND through 470 pF and AG to #1 of MPX (X04-0010-10)	AG 67 kHz (f) 0.5V (Output)	—	Connect the oscilloscope and VTVM to the secondary center of L3	Lc3	Minimum deflection
9	BEACON (SUB)	Ⓒ	95 MHz (60 dB) 68.25 kHz (Dev) 1 kHz (Mod) L + R	95 MHz	Stereo indicator	VRc1	Indicator lights
10	SUB CARRIER	ditto	95 MHz (60 dB) 68.25 kHz (Dev) 1 kHz (Mod) L — R	ditto	Ⓑ	Lc1, 4	Maximum deflection
11	BEACON (19 kHz)	ditto	95 MHz (60 dB) 40 kHz (Dev) 1 kHz (Mod) L — R	ditto	Stereo indicator	VRc1	At the point of becoming light on
12	BEACON (INPUT)	ditto	95 MHz (16.3 dB) 68.25 kHz (Dev) 1 kHz (Mod) L — R	ditto	ditto	VRb4	ditto
13	SEPARATION	ditto	95 MHz (60 dB) 68.25 kHz (Dev) 1 kHz (Mod) L or R	ditto	Ⓑ	VRm1	Minimum deflection
14	MUTING	Ⓐ	95 MHz (60 dB) 75 kHz (Mod) 1 kHz (Mod)	ditto MUTING: ON	ditto	VRb3	Under the antenna input level is 9.5 dB output level becomes 40 dB lower

When adjusting AM circuit, refer to AM SECTION in EX.1.

* Each model has its own value, refer to the service manual.